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Joint Committee on Plastics and Recreational Vehicle Plumbing Components

August 14, 2025

Proposed revision to NSF/ANSI 14: *Plastics Piping System Components and Related Materials* (14i152r1)

Revision 1 of NSF/ANSI 14, issue 152 is being forwarded to the Joint Committee for consideration. Please review the proposal and **submit your ballot by September 5, 2025** via the NSF Online Workspace.

Please review all ballot materials. When adding comments, please include the section number applicable to your comment and add all comments under one comment number whenever possible. If you need additional space, please use the attached blank comment template in the reference documents and upload online via the browse function.

Purpose

This ballot updates the frequency for the extrusion quality test to align with AWWA C909, CSA B137.3.1, and ASTM F1483 requirements.

Background

An issue paper (PLAS-2025-1) noted that Table 9.27 requires the extrusion quality test, which is conducted on unexpanded pipe, to be conducted every 8 hours. However, samples of unexpanded pipe cannot be easily taken during a production run of a continuous process for manufacturing PVCO pipe.

For this reason, AWWA C909 lists the frequency of this test as "…at the beginning of a production run of each specific material and each size." CSA B137.3.1 includes similar language for frequency tests at the beginning of the run and ASTM F1483 mentions "starting stock pipe." Accordingly, this ballot updates the frequency from every 8 hours to start-up, and clarifies that the test applies to unexpanded pipe.

This issue was discussed at the 2025 Joint Committee meeting and voted to go to ballot. For additional background information, please refer to the issue paper and the meeting summary (page 2) under Referenced Items.

If you have any questions about the technical content of the ballot, you may contact me in care of:

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[Note – The recommended changes to the standard which include the current text of the relevant section(s) indicate deletions by use of ~~strikeout~~ and additions by gray highlighting. Rationale statements are in *italics* and only used to add clarity; these statements will NOT be in the finished publication.]

NSF/ANSI Standard for Plastics —

Plastics Piping System Components and Related Materials

9 Quality assurance

9.10 Product-specific quality assurance requirements

Tables 9.2 through 9.40 provide product-specific quality assurance requirements.

Table 9.27
PVCO pressure pipe

Test	Frequency		
dimensions			
pipe outside diameter	2 h	2 h	2 h
pipe wall thickness	2 h	2 h	2 h
regression	qualification	qualification	qualification
sustained pressure	annually	annually	annually [a]
burst	24 h	24 h	—
flattening	8 h	8 h	8 h
extrusion quality (on unexpanded pipe)	~~8 h~~ start-up	~~8 h~~ start-up	~~8 h~~ start-up
impact	—	24 h	24 h
apparent tensile strength	—	—	annually
hydrostatic integrity	annually	annually	—
product standard(s)	AWWA C909 [b]	ASTM F1483	CSA B137.3.1

[a] Testing per Section 5.4 of CSA B137.3.1.

[b] Pipe compliant to AWWA C909 shall additionally follow the QC requirements of AWWA C909.

Rationale:

- ***Updates the extrusion quality test frequency from 8 hours to start-up 1) to align with the requirements in AWWA C909, CSA B137.3.1, and ASTM F1483 and 2) because it is not practical to sample unexpanded pipe every 8 hours due to the continuous production process of PVCO pipe.***
- ***Clarifies that the extrusion test applies to unexpanded pipe***